OIPE	INFO
′	MIAI

RMATION DISCLOSURE **EMENT BY APPLICANT**

Substitute for Form 1449A/PTO

(Use as many sheets as necessary)

Complete if Known					
Application Number	10/017,973	<u> </u>			
Filing Date	December 7, 2001				
First Named Inventor	Mitsuaki Oshima, et al.				
Art Unit	2137				
Examiner Name	Paul E. Callahan				
Attorney Docket No.	MTS-520US5				

ADEMERIC		SHEET	1 of 2	Attorno	By Docket No.	MTS-520US5	
PEN			U.S. P	ATENT D	OCUMENTS	<u> </u>	· · · · · · · · · · · · · · · · · · ·
Document Number						Pages, Columns, Lines, When	
Examiner Initials*	Cite No.1	Number - Kind Code ² (if known)	Publicati (MM-DI			of Patentee or of Cited Document	Relevant Passages or Relevan Figures Appear
pc		US-5,309,421 (w/ counterpart CN 1059222A)	05-03-1	994	FUJISAWA	, Hirotoshi	
		US-					
		US-					
		US-					
		US-					
		US-					
		US-					
		US-					
		US-					·
		US-					
		US-			İ		
		US-					
		US-					
		US-					
		US-					
		US-					
		US-					

	FOREIGN PATENT DOCUMENTS						
F. comboo	Cina	Foreign Patent Document	Dublication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant		
Examiner Initials*	Cite No. ¹	Country Code ³ - Number ⁴ - Kind Code ⁵ (If known)	Publication Date (MM-DD-YYYY)	Applicant of Cited Document	Figures Appear	Τ°	
pc.		CN 1059222A (w/counterpart U.S. 5,309,421)	03-04-1992				

Examiner	Ω	Date 2/a/\
Signature	Tund Cyllahon	Considered 2/3/4

*Applicant is to place a check mark here if English language translation is attached.

The collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Applicant's unique citation designation number (optional).

²See Kind Codes of USPTO Patent Documents at <u>www.uspto.gov</u> or MPEP 901.04.

³Enter Office that issued the document, by the two-letter code (WIPO Standard St.3).

For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

³Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible.

Substitut	Substitute for Form 1449B/PTO		Complete if Known				
		•	Application Number	10/017,973			
INF	ORM	IATION DISCLOSURE	Filing Date	December 7, 2001			
		MENT BY APPLICANT	First Named Inventor	Mitsuaki Oshima, et al.			
	(Use	as many sheets as necessary)	Art Unit	2137			
011	E	<u> </u>	Examiner Name	Paul E. Callahan			
<u> </u>	SHEET 2 of 2			MTS-520US5	<u></u>	ノ	
P JAN O	6. 2005 	NON-PATENT L	ITERATURE DOCU				
Examiner Initials*	MARK No.1	Include name of the author (in CAPITAL LET magazine, journal, serial, symposium, catalog	TERS), title of the art g, etc.), date, page(s) country where publish), volume-issue number(s	itile of the Item (book,), publisher, city and/or	T²	
pc		Chinese Official Action for CN 1059222A	, date issued Nove	mber 26, 2004 with Er	iglish translation		
					- 		
Examiner	<u>_</u>	P. Collabor		Date Considered	2/3/05		

...

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

¹Applicant's unique citation designation number (optional).

²Applicant is to place a check mark here if English language translation is attached.

The collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form. call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08b (08-03) (AW 10/2003) Approved for use through 6/30/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no person are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for Form 1449B/PTO		Complete if Known	
***************************************	Application Number	10/017,973	
INFORMATION DISCLOSURE	Filing Date	December 7, 2001	
STATEMENT BY APPLICANT	First Named Inventor	Mitsuaki OSHIMA, et al.	
(Use as many sheets as necessary)	Art Unit	2137	
	Examiner Name	Paul E. Callahan	
SHEET 2 of 2	Attorney Docket No.	MTS-520US5	/

NON-PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²		
R		European Search Report for EP 04020082, dated October 6, 2004.			
•					
	:				
Examiner	T	Date 7/3/05			

'Applicant's unique citation designation number (optional).

'Applicant's to place a check mark here if English language translation is attached.

The collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

PTO/SB/08A (AW 4/25/03) (04-03)
Approved for use through 04/30/2004. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE on Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for Form 1449 BTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

SHEET 1 of 2

Complete if Known				
Application Number	10/017,973			
Filing Date	December 7, 2001			
First Named Inventor	Mitsuaki OSHIMA, et al.			
Art Unit	2137			
Examiner Name	Paul E. Callahan			
Attorney Docket No.	MTS-520US5			

		· · · · · · · · · · · · · · · · · · ·	'U.S. PATENT DO	OCUMENTS:	Company to the second second
		Document Number			Pages, Columns, Lines, Where
Examiner Initials*	Cite No.1	Number - Kind Code ^{2 (if known)}	Publication Date (MM-DD-YYYY)	Name of Patentee or Applicant of Cited Document	Relevant Passages or Relevant Figures Appear

Examiner	Cite	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited	Pages, Columns, Lines, Where Relevant Passages or Relevant	
	No.1	Country Code ³ - Number ⁴ - Kind Code ^{5 (If known)}	(MM-DD-YYYY)	Document	Figures Appear	T6
PC		JP 01-243237 A (with English abstract)	09/27/89	RICOH CO LTD		
		EP 0 520 619 A	12/30/92	PIONEER ELECTRONIC CORP		
			•			
•						
Examiner	1			Date	7/2/	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with NPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this

"EXAMINER: Initial if reference considered, whether or not citation is in conformance with NPEP 609. Draw line through ditation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Applicant's unique citation designation number (optional).

See Kind Codes of USPTO Patent Documents at www.uspto.gov or NPEP 901.04.

Enter Office that issued the document, by the two-letter code (WIPO Standard St.3).

For Japanese patent documents, the Indication of the year of the reign of the Emperor must precede the serial number of the patent document.

Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible.

Applicant is to place a check mark here if English language translation is attached.

The collection of information is required by 37 CFR 1.79 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commence, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08b (08-03) (AW 10/2003)

Approved for use through 6/30/2008. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act,

Substitute for Form 1449B/PTO

of 1995, no persons at aquired to respond to a collection of information unless it displays a valid OMB control number.

INFORMATION		
INFORMATION	DISCO	DOUBLE
STATEMENT B	Y APPI	ICANT

(Use as many sheets as necessary)

SHEET 1 of 1

Complete if Known				
Application Number	10/017,974			
Filing Date	December 7, 2001			
First Named Inventor	Mitsuaki OSHIMA, et al.			
Art Unit	2137			
Examiner Name	Paul E. Callahan	·· -		
Attorney Docket No.	MTS-520US5			

NON-PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²	
Pr		Japanese Official Action for JP 2002-235948, date mailed September 28, 2004, with English translation.	☒	
pc		Japanese Official Action for JP 2002-235949, date mailed September 28, 2004, with English translation.	Ø	
PC		"Outline of Barcode Symbol", (see "JAN code standard" at http://www.barcode.ne.jp/about_barcode/code/index.html , with English translation.	Ø	
	·			
				
		,		
,				
			<u> </u>	
Examiner Signature	Ţ	Paul Callahan Date Considered 2/3/05		

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Applicant's unique citation designation number (optional).

²Applicant is to place a check mark here if English language translation is attached.

The collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.